

PPPPPPPPPPPPP AAAAAAAA SSSSSSSSSSS RRRRRRRRRRRR TTTTTTTTTTTTTLLL  
PPPPPPPPPPPPP AAAAAAAA SSSSSSSSSSS RRRRRRRRRRRR TTTTTTTTTTTTTLLL  
PPPPPPPPPPPPP AAAAAAAA SSSSSSSSSSS RRRRRRRRRRRR TTTTTTTTTTTTTLLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPP PPP AAA AAA SSS RRR RRR TTT LLL  
PPPPPPPPPPPPP AAA AAA SSSSSSSSS RRRRRRRRRRRR TTT LLL  
PPPPPPPPPPPPP AAA AAA SSSSSSSSS RRRRRRRRRRRR TTT LLL  
PPPPPPPPPPPPP AAA AAA SSSSSSSSS RRRRRRRRRRRR TTT LLL  
PPP AAAAAAAAAAAA SSS RRR RRR TTT LLL  
PPP AAAAAAAAAAAA SSS RRR RRR TTT LLL  
PPP AAAAAAAAAAAA SSS RRR RRR TTT LLL  
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT LLL  
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT LLL  
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT LLL

\*\*FILE\*\*ID\*\*PASF1LEUT

M 6

PPPPPPPP P AAAAAAA SSSSSSSS FFFFFFFF IIIII LL EEEEEEEE UU UU TTTTTTTTTT  
PPPPPPPP P AAAAAAA SSSSSSSS FFFFFFFF IIIII LL EEEEEEEE UU UU TTTTTTTTTT  
PP PP AA AA SS FF IIII LL EE UU TT  
PP PP AA AA SS FF IIII LL EE UU TT  
PP PP AA AA SS FF IIII LL EE UU TT  
PP PP AA AA SS FF IIII LL EE UU TT  
PPPPPPPP AA AA SSSSSS FFFFFF IIII LL EEEEEEE UU UU TT  
PPPPPPPP AA AA SSSSSS FFFFFF IIII LL EEEEEEE UU UU TT  
PP AAAAAAAAAA SS FF IIII LL EE UU TT  
PP AAAAAAAAAA SS FF IIII LL EE UU TT  
PP AA AA SS FF IIII LL EE UU TT  
PP AA AA SS FF IIII LL EE UU TT  
PP AA AA SSSSSSSS FF IIII LLLLLLLL EEEEEEEE UUUUUUUUUU TT  
PP AA AA SSSSSSSS FF IIII LLLLLLLL EEEEEEEE UUUUUUUUUU TT

The diagram illustrates a mapping from a set of input symbols (LL, II, SS) to a set of output symbols (SSSSSSSS). The input symbols are arranged in columns, and the output symbols are arranged in rows. The mapping is as follows:

- Input symbol LL maps to Output symbol SSSSSSSS.
- Input symbol II maps to Output symbol SSSSSSSS.
- Input symbol SS maps to Output symbol SSSSSSSS.
- Input symbol SSSSSSSS maps to Output symbol SS.

The input symbols are represented by vertical stacks of short horizontal bars. The output symbols are represented by vertical stacks of longer horizontal bars.

```
1 0001 0 MODULE PASSFILE UTIL ( %TITLE,'File manipulation utility procedures'  
2 0002 0 IDENT = '1-005' ! File: PASFILEUT.B32 Edit: SBL1005  
3 0003 0 ) =  
4 0004 1 BEGIN  
5 0005 1 *****  
6 0006 1 *  
7 0007 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
8 0008 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
9 0009 1 * ALL RIGHTS RESERVED.  
10 0010 1 *  
11 0011 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
12 0012 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
13 0013 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
14 0014 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
15 0015 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
16 0016 1 * TRANSFERRED.  
17 0017 1 *  
18 0018 1 *  
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
21 0021 1 * CORPORATION.  
22 0022 1 *  
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
25 0025 1 *  
26 0026 1 *  
27 0027 1 *****  
28 0028 1 .  
29 0029 1 .  
30 0030 1 ++  
31 0031 1 FACILITY: Pascal Language Support  
32 0032 1 ABSTRACT:  
33 0033 1 Utility procedures to manipulate the global list of files.  
34 0034 1 ENVIRONMENT: User mode - AST reentrant  
35 0035 1 AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981  
36 0036 1 MODIFIED BY:  
37 0037 1 1-001 - Original. SBL 1-April-1981  
38 0038 1 1-002 - Don't assume that PFV contains valid information in PASSCLOSE_LOCAL_R3.  
39 0039 1 Use DO_CLOSE_HANDLER to display error messages from DO_CLOSE.  
40 0040 1 SBL 28-Jun-1982  
41 0041 1 1-003 - Set all PFV fields that are needed to close the file in PASS$CLOSE_LOCAL.  
42 0042 1 SBL 29-Jun-1982  
43 0043 1 1-004 - Move FCBSL_STATUS to PFVSL_STATUS in PASS$REMOVE_FILE.  
44 0044 1 QAR FT3-2 SBL 30-Aug-1982  
45 0045 1 1-005 - Allow PASS$REMOVE_FILE to be called without the queue having been  
46 0046 1 initialized. This can occur if the first file opened in the program  
47 0047 1 fails to open and the OPEN is unwound. SBL 10-Jan-1983  
48 0048 1 !--  
49 0049 1  
50 0050 1  
51 0051 1  
52 0052 1  
53 0053 1  
54 0054 1  
55 0055 1
```

```
: 57      0056 1 %SBTTL 'Declarations'  
: 58      0057 1 !  
: 59      0058 1 ! PROLOGUE DEFINITIONS:  
: 60      0059 1 !  
: 61      0060 1 !  
: 62      0061 1 REQUIRE 'RTLIN:PASPROLOG';           ! Linkages, externals, PSECTs, structures  
: 63      0125 1 !  
: 64      0126 1 !  
: 65      0127 1 ! TABLE OF CONTENTS:  
: 66      0128 1 !  
: 67      0129 1 !  
: 68      0130 1 FORWARD ROUTINE  
: 69      0131 1 PASS$ADD FILE: NOVALUE,          ! Add file to global list  
: 70      0132 1 PASS$REMOVE_FILE: NOVALUE,        ! Remove file from global list  
: 71      0133 1 PASS$PROMPT_ALL: NOVALUE,         ! Prompt on all enabled files  
: 72      0134 1 PASS$PROMPT_FILE: JSB PROMPT_FILE NOVALUE, ! Prompt on a file  
: 73      0135 1 PASS$CLOSE_ALL: NOVALUE,          ! Close all files  
: 74      0136 1 PASS$CLOSE_LOCAL R3: JSB CLOSE_LOCAL NOVALUE, ! Close all local files  
: 75      0137 1 PASS$CLOSE_LOCAL: JSB_CLOSE_LOCAL NOVALUE, ! Internally callable  
: 76      0138 1 DO_CLOSE: NOVALUE,                 ! Close a file  
: 77      0139 1 DO_CLOSE_HANDLER,                ! Handler for DO_CLOSE  
: 78      0140 1 INITIALIZE_QUEUE: NOVALUE,        ! Initialize FILE_QUEUE  
: 79      0141 1 SERVICE_REQUEST: NOVALUE;        ! Service remove request  
: 80      0142 1 !  
: 81      0143 1 ! MACROS:  
: 82      0144 1 !  
: 83      0145 1 !  
: 84      0146 1 !     NONE  
: 85      0147 1 !  
: 86      0148 1 ! EQUATED SYMBOLS:  
: 87      0149 1 !  
: 88      0150 1 !     NONE  
: 89      0151 1 !  
: 90      0152 1 ! FIELDS:  
: 91      0153 1 !  
: 92      0154 1 !     NONE  
: 93      0155 1 !  
: 94      0156 1 ! OWN STORAGE:  
: 95      0157 1 !  
: 96      0158 1 !  
: 97      0159 1 ! OWN  
: 98      0160 1 FILE_QUEUE: VECTOR [2, LONG],       ! Queue of FCBs  
: 99      0161 1 REQUEST_LEVEL: INITIAL (-1),        ! Reentrancy level  
: 100     0162 1 QUEUE_INITIALIZED: INITIAL (0),    ! True if queue initialized  
: 101     0163 1 REMOVE_REQUESTED: INITIAL (0);      ! Remove requested from AST level
```

```
: 103      0164 1 ZSBTTL 'PAS$ADD_FILE - Add file to queue'
: 104      0165 1 GLOBAL ROUTINE P$ADD_FILE (
: 105          FCB: REF SPASSFCB_CONTROL_BLOCK
: 106          ): NOVALUE =
: 107      0168 1 ++
: 108      0169 1 : FUNCTIONAL DESCRIPTION:
: 109      0170 1 : Adds a file's FCB to the queue of files.
: 110      0171 1 :
: 111      0172 1 : CALLING SEQUENCE:
: 112      0173 1 :     PAS$ADD_FILE (FCB.r.r)
: 113      0174 1 :
: 114      0175 1 : FORMAL PARAMETERS:
: 115      0176 1 :     FCB           File Control Block for file
: 116      0177 1 :
: 117      0178 1 : IMPLICIT INPUTS:
: 118      0179 1 :
: 119      0180 1 :     FILE_QUEUE
: 120      0181 1 :     REQUEST_LEVEL
: 121      0182 1 :     QUEUE_INITIALIZED
: 122      0183 1 :     REMOVE_REQUESTED
: 123      0184 1 :
: 124      0185 1 :
: 125      0186 1 :
: 126      0187 1 :
: 127      0188 1 :
: 128      0189 1 : IMPLICIT OUTPUTS:
: 129      0190 1 :
: 130      0191 1 :     NONE
: 131      0192 1 :
: 132      0193 1 : COMPLETION STATUS:
: 133      0194 1 :
: 134      0195 1 :     NONE
: 135      0196 1 :
: 136      0197 1 : SIDE EFFECTS:
: 137      0198 1 :
: 138      0199 1 :     Inserts FCB onto head of FILE_QUEUE.
: 139      0200 1 :
: 140      0201 1 : SIGNALLED ERRORS:
: 141      0202 1 :
: 142      0203 1 :
: 143      0204 1 :-- 
: 144      0205 1 :
: 145      0206 2 : BEGIN
: 146      0207 2 :
: 147      0208 2 : BUILTIN
: 148      0209 2 :     INSQUE;
: 149      0210 2 :
: 150      0211 2 :+
: 151      0212 2 :     Initialize the queue if necessary.
: 152      0213 2 :-
: 153      0214 2 :
: 154      0215 2 : IF NOT .QUEUE_INITIALIZED
: 155      0216 2 : THEN
: 156      0217 2 :     INITIALIZE_QUEUE ();
: 157      0218 2 :
: 158      0219 2 :+
: 159      0220 2 :     Increment REQUEST_LEVEL.
```

```

: 160      0221 2      !-
: 161      0222 2
: 162      0223 2      REQUEST_LEVEL = .REQUEST_LEVEL + 1;
: 163      0224 2
: 164      0225 2      !+
: 165      0226 2      | Insert FCB onto FILE_QUEUE at head.
: 166      0227 2      |-
: 167      0228 2
: 168      0229 2      INSQUE (FCB [FCBSL_QUEUE_FLINK], FILE_QUEUE);
: 169      0230 2
: 170      0231 2      !+
: 171      0232 2      | Mark the FCB as being on the queue.
: 172      0233 2      |-
: 173      0234 2
: 174      0235 2      FCB [FCBSV_ON_QUEUE] = 1;
: 175      0236 2
: 176      0237 2      !+
: 177      0238 2      | Decrement REQUEST_LEVEL.
: 178      0239 2      |-
: 179      0240 2
: 180      0241 2      REQUEST_LEVEL = .REQUEST_LEVEL - 1;
: 181      0242 2
: 182      0243 2      !+
: 183      0244 2      | If a remove request has been made, service it.
: 184      0245 2      |-
: 185      0246 2
: 186      0247 2      IF .REMOVE_REQUESTED
: 187      0248 2      THEN
: 188      0249 2      SERVICE_REQUEST ();
: 189      0250 2
: 190      0251 2      RETURN;
: 191      0252 2
: 192      0253 1      END;

```

! End of routine PASS\$ADD\_FILE

```

: .TITLE PASS$FILE_UTIL File manipulation utility proce
: ures
: .IDENT \1-005\
```

```

: .PSECT _PASS$DATA,NOEXE, PIC,2
```

```

: 00000 FILE_QUEUE:
: FFFFFFFF 00008 REQUEST_LEVEL:
:          .BLKB   8
: 00000000 0000C QUEUE_INITIALIZED:
:          .LONG   -1
: 00000000 00010 REMOVE_REQUESTED:
:          .LONG   0
:          .LONG   0
```

```

: .EXTRN PASS$ADD_FILE, PASS$REMOVE_FILE
: .EXTRN PASS$PROMPT_ALL
: .EXTRN PASS$PROMPT_FILE
: .EXTRN PASS$CLOSE_ALL, PASS$CLOSE_LOCAL_R3
: .EXTRN PASS$CLOSE_LOCAL
```

```

: .PSECT _PASS$CODE,NOWRT, SHR, PIC,2
```

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 PASS\$ADD\_FILE - Add file to queue

E 7  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29  
VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 5  
(3)

52 00000000'	EF 9E 00002	.ENTRY	PASS\$ADD FILE, Save R2	: 0165
05 04	A2 E8 00009	MOVAB	REQUEST [LEVEL, R2	: 0215
0000V CF	00 FB 0000D	BLBS	QUEUE INITIALIZED, 1\$	: 0217
	62 D6 00012	CALLS	#0, INITIALIZE_QUEUE	: 0223
F8 50	04 AC DD 00014	INCL	REQUEST_LEVEL	: 0229
A2 BC	A0 0E 00018	MOVL	FCB, R0-	: 0235
FE 50	04 AC DD 0001D	INSQUE	-68(R0), FILE_QUEUE	: 0241
A0 20	88 00021	MOVL	FCB, R0	: 0247
0000V 05	08 A2 E9 00027	BISB2	#32, -2(R0)	: 0249
CF 00	FB 0002B	DECL	REQUEST LEVEL	: 0253
	04 00030	BLBC	REMOVE REQUESTED, 2\$	
	2\$: RET	CALLS	#0, SERVICE_REQUEST	

: Routine Size: 49 bytes, Routine Base: \_PASS\$CODE + 0000

: 193 0254 1  
: 194 0255 1 !<BLF/PAGE>

```
: 196      0256 1 XSBTTL 'PASSREMOVE FILE - Remove file from queue'
: 197      0257 1 GLOBAL ROUTINE PASSREMOVE FILE (
: 198          FCB: REF $PASSFCB_CONTROL_BLOCK
: 199          ): NOVALUE =
: 200      0260 1
: 201      0261 1 ++
: 202      0262 1 | FUNCTIONAL DESCRIPTION:
: 203      0263 1 |
: 204      0264 1 |     Remove a file's FCB from the queue of files.
: 205      0265 1 |
: 206      0266 1 | CALLING SEQUENCE:
: 207      0267 1 |
: 208      0268 1 |     PASSREMOVE_FILE (FCB.r.r)
: 209      0269 1 |
: 210      0270 1 | FORMAL PARAMETERS:
: 211      0271 1 |
: 212      0272 1 |     FCB           File Control Block for file
: 213      0273 1 |
: 214      0274 1 | IMPLICIT INPUTS:
: 215      0275 1 |
: 216      0276 1 |     FILE_QUEUE
: 217      0277 1 |     REQUEST_LEVEL
: 218      0278 1 |     QUEUE_INITIALIZED
: 219      0279 1 |     REMOVE_REQUESTED
: 220      0280 1 |
: 221      0281 1 | IMPLICIT OUTPUTS:
: 222      0282 1 |
: 223      0283 1 |     FILE_QUEUE
: 224      0284 1 |     REQUEST_LEVEL
: 225      0285 1 |     QUEUE_INITIALIZED
: 226      0286 1 |     REMOVE_REQUESTED
: 227      0287 1 |     FCB [FCB$V DEALLOC]
: 228      0288 1 |
: 229      0289 1 | COMPLETION STATUS:
: 230      0290 1 |
: 231      0291 1 |     NONE
: 232      0292 1 |
: 233      0293 1 | SIDE EFFECTS:
: 234      0294 1 |
: 235      0295 1 |     Removes FCB from FILE_QUEUE or requests deallocation.
: 236      0296 1 |
: 237      0297 1 | SIGNALLED ERRORS:
: 238      0298 1 |
: 239      0299 1 |     NONE
: 240      0300 1 | --
: 241      0301 1 | BEGIN
: 242      0302 2 |
: 243      0303 2 |
: 244      0304 2 | BUILTIN
: 245      0305 2 |     REMQUE;
: 246      0306 2 |
: 247      0307 2 | +
: 248      0308 2 |     Initialize the queue if necessary.
: 249      0309 2 | -
: 250      0310 2 |
: 251      0311 2 | IF NOT .QUEUE_INITIALIZED
: 252      0312 2 | THEN
```

```

253      0313 2      INITIALIZE_QUEUE ();
254      0314 2
255      0315 2
256      0316 2      !+ Invalidate FCB pointer in PFV.
257      0317 2      !-
258      0318 2
259      0319 2
260      0320 2
261      0321 2      LOCAL
262      0322 2          PFV: REF SPASS$PFV_FILE_VARIABLE;
263      0323 2          PFV = .FCB [FCBSA_PFV];
264      0324 2          PFV [PFVSV_FCB_VA[ID]] = 0;
265      0325 2          PFV [PFVSL_STATUS] = .FCB [FCBSL_STATUS]; ! Overlays PFVSA_FCB
266      0326 2
267      0327 2
268      0328 2
269      0329 2      !+ If the FCB is not on the queue then simply free the
270      0330 2          storage and return.
271      0331 2      !-
272      0332 2
273      0333 2      IF NOT .FCB [FCBSV_ON_QUEUE]
274      0334 2      THEN
275      0335 2          BEGIN
276      0336 2          LOCAL
277      0337 2              BLOCK_ADDR; ! Address of allocated block
278      0338 2              BLOCK_ADDR = FCB [FCBSL_QUEUE_FLINK];
279      0339 2              PASS$FREE_VM (PASS$FILE_DYN_BLN, BLOCK_ADDR);
280      0340 2
281      0341 2
282      0342 2
283      0343 2
284      0344 2      ELSE
285      0345 2
286      0346 2      BEGIN
287      0347 2          !+
288      0348 2          Increment REQUEST_LEVEL. If we are at level zero, then we can do the
289      0349 2          REMQUE directly, so do it and free the storage.
290      0350 2          Otherwise set the DEALLOC bit in the FCB and set REMOVE_REQUESTED.
291      0351 3
292      0352 3      IF (REQUEST_LEVEL=.REQUEST_LEVEL+1) EQL 0
293      0353 4      THEN
294      0354 4          BEGIN
295      0355 4          LOCAL
296      0356 4              ITEM_ADDR; ! Output from REMQUE
297      0357 4              REMQUE (FCB [FCBSL_QUEUE_FLINK], ITEM_ADDR);
298      0358 4              FCB [FCBSV_ON_QUEUE] = 0;
299      0359 4              PASS$FREE_VM (PASS$FILE_DYN_BLN, ITEM_ADDR);
300      0360 3
301      0361 4      ELSE
302      0362 4          BEGIN
303      0363 4              FCB [FCBSV DEALLOC] = 1;
304      0364 4              REMOVE_REQUESTED = 1;
305      0365 4
306      0366 4
307      0367 4      !+
308      0368 4          Decrement REQUEST_LEVEL.
309      0369 3

```

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 PASS\$REMOVE\_FILE - Remove file from queue

H 7  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29

VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFIL EUT.B32;1

Page 8  
(4)

PA  
1-

.EXTRN PASSFREE\_VM

; Routine Size: 120 bytes, Routine Base: \_PASSCODE + 0031

; 325 0385 1

PASSFILE\_UTIL File manipulation utility procedures  
1-005 PASSREMOVE\_FILE - Remove file from queue  
; 326 0386 1 !<BLF/PAGE>

17  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29  
VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFILEUT.B32:1

Page 9  
1-  
;

328 0387 1 %SBTTL 'PASS\$PROMPT\_ALL - Prompt on all prompt-enabled files'  
329 0388 1 GLOBAL ROUTINE PASS\$PROMPT\_ALL  
330 0389 1 : NOVALUE =  
331 0390 1  
332 0391 1 !++  
333 0392 1 FUNCTIONAL DESCRIPTION:  
334 0393 1  
335 0394 1 Finds all files for which prompting is enabled and which have  
336 0395 1 partial lines and writes the partial lines.  
337 0396 1  
338 0397 1 CALLING SEQUENCE:  
339 0398 1  
340 0399 1 PASS\$PROMPT\_ALL ()  
341 0400 1  
342 0401 1 FORMAL PARAMETERS:  
343 0402 1  
344 0403 1  
345 0404 1  
346 0405 1  
347 0406 1  
348 0407 1  
349 0408 1  
350 0409 1  
351 0410 1  
352 0411 1  
353 0412 1  
354 0413 1  
355 0414 1  
356 0415 1  
357 0416 1  
358 0417 1  
359 0418 1  
360 0419 1  
361 0420 1  
362 0421 1  
363 0422 1  
364 0423 1  
365 0424 1  
366 0425 1 !--  
367 0426 1  
368 0427 2  
369 0428 2  
370 0429 2  
371 0430 2  
372 0431 2  
373 0432 2  
374 0433 2  
375 0434 2  
376 0435 2  
377 0436 2  
378 0437 2  
379 0438 2  
380 0439 2  
381 0440 2  
382 0441 2  
383 0442 2  
384 0443 2  
          BEGIN  
          LOCAL  
            FCB: REF SPASS\$FCB\_CONTROL\_BLOCK;         ! File control block  
          BIND  
            RAB = FCB: REF BLOCK [, BYTE];             ! RAB is FCB  
          BUILTIN  
            TESTBIT\$;  
          !+  
          ! If queue is not initialize, bugcheck.  
          !-  
          IF NOT .QUEUE\_INITIALIZED  
          THEN

```
0444 2 SPASSBUGCHECK (BUG_FNOTINIT);
0445 2
0446 2
0447 2
0448 2
0449 2
0450 2
0451 2
0452 2
0453 2
0454 2
0455 2
0456 2
0457 2
0458 2
0459 2
0460 2
0461 2
0462 2 WHILE (FCB [FCBSR_FCB] NEQA FILE_QUEUE) DO ! Stop when we get back to header
0463 2 BEGIN
0464 2   FCB = FCB [FCBSR_FCB] + FCB$K_BLN;      ! Set correct FCB origin
0465 2   IF .FCB [FCBSV_PROMPT_ENABLE] AND
0466 2     .FCB [FCBSV_GENERATION] AND
0467 2     NOT .FCB [FCBSV DEALLOC]
0468 3 THEN
0469 4   BEGIN
0470 4     LOCAL
0471 4       PFV: REF SPASSPFV_FILE_VARIABLE;      ! Pascal File Variable
0472 4       PFV = .FCB [FCBSA_PFV];               ! Get file variable
0473 4       IF PFV [PFV$R_PFV] NEQA 0
0474 4       THEN
0475 4         IF TESTBITS (PFV [PFV$V_LOCK]) ! Test and set file lock
0476 4         THEN
0477 5           BEGIN
0478 5             !+
0479 5               File is locked. See if it is in Generation mode
0480 5               and has a partial line in the buffer. If so, call
0481 5               PASS$PROMPT_FILE to output the prompt.
0482 5
0483 5
0484 5
0485 6
0486 5
0487 5
0488 5
0489 5
0490 5
0491 5
0492 5
0493 5
0494 4
0495 4
0496 4
0497 4
0498 4
0499 4
0500 4
END;
0
|+ Get next file from queue.
```

```

442      0501 3
443      0502 2
444      0503 2
445      0504 2
446      0505 2
447      0506 2
448      0507 2
449      0508 2
450      0509 2
451      0510 2
452      0511 2
453      0512 2
454      0513 2
455      0514 2
456      0515 2
457      0516 2
458      0517 2
459      0518 2
460      0519 2
461      0520 2
462      0521 1

        FCB = .FCB [FCBSL_QUEUE_FLINK];
        END;

        !+ Decrement REQUEST_LEVEL.
        !-
        REQUEST_LEVEL = .REQUEST_LEVEL - 1;

        !+ If a remove request has been made, service it.
        !-
        IF .REMOVE_REQUESTED
        THEN
            SERVICE_REQUEST ();
        RETURN;
        END;

```

! End of routine PASSPROMPT\_ALL

.EXTRN PASS\$BUGCHECK

			52 00000000' 0A 0000000G 00	00C4 00000 EF 9E 00002 A2 E8 00009 01 DD 0000D 01 FB 0000F 04 00016	.ENTRY	PASSPROMPT_ALL, Save R2,R6,R7 REQUEST_LEVEL, R2 QUEUE_INITIALIZED, 1\$	0388
				62 D6 00017 1\$: 57 F8 A2 D0 00019 50 F8 A2 9E 0001D 50 38 13 00021	MOVAB	BLBS	0442
				44 62 00026 06 E1 0002A 04 E1 0002F 01 E0 00034	PUSHL	PUSHL #1	0444
				DC A7 D0 00039 19 13 0003D 1F E2 0003F 04 E1 00044	CALLS	CALLS #1, PASS\$BUGCHECK	
				A7 D1 00049 03 13 0004E	RET	RET	
29	FD	A7			INCL	REQUEST_LEVEL	0450
24	FD	A7			MOVL	FILE_QUEUE, FCB	0456
1F	FE	A7			MOVAB	FILE_QUEUE, R0	0462
				57 D1 00021 38 13 00024	CMPL	FCB, R0	
				BEQL	5\$		
				68(R7), FCB	MOVAB	68(R7), FCB	0464
				#6, -3(FCB), 4\$	BBC	#6, -3(FCB), 4\$	0465
				#4, -3(FCB), 4\$	BBC	#4, -3(FCB), 4\$	0466
				#1, -2(FCB), 4\$	BBS	#1, -2(FCB), 4\$	0467
				-36(FCB), PFV	MOVL	-36(FCB), PFV	0472
				4\$	BEQL	4\$	0473
				#31, 4(PFV), 4\$	BBSS	#31, 4(PFV), 4\$	0475
				#4, -3(FCB), 3\$	BBC	#4, -3(FCB), 3\$	0484
				-20(FCB), -24(FCB)	CMPL	-20(FCB), -24(FCB)	0485
				3\$	BEQL	3\$	
				PASS\$PROMPT_FILE	BSBW	PASS\$PROMPT_FILE	0487
				#128, 7(PFV)	BICB2	#128, 7(PFV)	0493
				-68(FCB), FCB	MOVL	-68(FCB), FCB	0502
				2\$	BRB	2\$	0462
				DECL	REQUEST_LEVEL	REQUEST_LEVEL	0509
				BLBC	REMOVE REQUESTED, 6\$	REMOVE REQUESTED, 6\$	0515
				CALLS	#0, SERVICE_REQUEST	#0, SERVICE_REQUEST	0517
				RET			0521

: Routine Size: 106 bytes, Routine Base: \_PASSCODE + 00A9

PASSFILE\_UTIL File manipulation utility procedures  
1-005 PASSPROMPT\_ALL - Prompt on all prompt-enabled

M 7  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29

VAX-11 Bliss-32 v4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 13  
(5)

: 463 0522 1  
: 464 0523 1 !<BLF/PAGE>

```

466 0524 1 %SBTTL 'PASS$PROMPT FILE - Prompt on a prompt-enabled files'
467 0525 1 GLOBAL ROUTINE PASS$PROMPT_FILE (
468 0526 1     PFV: REF SPASS$PFV_FILE_VARIABLE,
469 0527 1     FCB: REF SPASS$FCB_CONTROL_BLOCK           ! Pascal File Variable
470 0528 1     ) : JSB_PROMPT_FILE NOVALOE =           ! File Control Block
471 0529 1
472 0530 1 ++
473 0531 1     FUNCTIONAL DESCRIPTION:
474 0532 1
475 0533 1     Performs a partial-line write on a prompt-enabled file.
476 0534 1
477 0535 1     CALLING SEQUENCE:
478 0536 1
479 0537 1     PASS$PROMPT_FILE (PFV.mr.r, FCB.mr.r)
480 0538 1
481 0539 1     FORMAL PARAMETERS:
482 0540 1
483 0541 1         PFV          - The Pascal File Variable for the file.
484 0542 1
485 0543 1         FCB          - The File Control Block for the file.
486 0544 1
487 0545 1     IMPLICIT INPUTS:
488 0546 1
489 0547 1         It is assumed that the file is a prompt-enabled textfile which
490 0548 1         is locked and in Generation mode.
491 0549 1
492 0550 1     IMPLICIT OUTPUTS:
493 0551 1
494 0552 1         NONE
495 0553 1
496 0554 1     COMPLETION STATUS:
497 0555 1
498 0556 1         NONE
499 0557 1
500 0558 1     SIDE EFFECTS:
501 0559 1
502 0560 1         A partial line is written to the file, with the cursor left at
503 0561 1         the end of the text written.
504 0562 1
505 0563 1     SIGNALLED ERRORS:
506 0564 1
507 0565 1         ERRDURPRO - error during prompting
508 0566 1
509 0567 1
510 0568 2     BEGIN
511 0569 2
512 0570 2     LOCAL
513 0571 2         CHARS_IN_LINE;                      ! Number of characters in the line
514 0572 2
515 0573 2     BIND
516 0574 2         RAB = FCB: REF BLOCK [, BYTE];      ! RAB is FCB
517 0575 2
518 0576 2
519 0577 2     !+ If the record has any characters in it, write the partial line.
520 0578 2     !-
521 0579 2
522 0580 2     CHARS_IN_LINE = .FCB [FCBSA_RECORD_CUR] - .FCB [FCBSA_RECORD_BEG];

```

```

523      0581 2    IF .CHARS_IN_LINE NEQ 0
524      0582 2    THEN
525      0583      BEGIN
526      0584          +
527      0585          Set up record pointer in RAB for SPUT.
528      0586          -
529      0587
530      0588      RAB [RAB$L_RBF] = .FCB [FCBSA_RECORD_BEG];
531      0589      RAB [RAB$W_RSZ] = .CHARS_IN_LINE;
532      0590
533      0591          +
534      0592          Set carriagecontrol depending on whether a partial
535      0593          line has been previously written.
536      0594          -
537      0595
538      0596      IF .FCB [FCBSV_PARTIAL_LINE]
539      0597      THEN
540      0598          FCB [FCBSW_PROMPT_CC] = FCBSK_CC_NULL      ! Nothing before, nothing
541      0599      ELSE
542      0600          FCB [FCBSW_PROMPT_CC] = FCBSK_CC_LFNL;      ! LF before, nothing after
543      0601
544      0602          +
545      0603          Do the SPUT and check for errors.
546      0604          -
547      0605
548      0606      IF NOT SPASSRMS_OP ($PUT (RAB=.RAB))
549      0607      THEN
550      0608          $PASS$IO_ERROR (PASS_ERRDURPRO);
551      0609
552      0610          +
553      0611          Reset the record buffer.
554      0612          -
555      0613
556      0614      FCB [FCBSA_RECORD_CUR] = .FCB [FCBSA_RECORD_BEG];
557      0615      FCB [FCBSV_PARTIAL_LINE] = 1;
558      0616
559      0617      END;
560      0618
561      0619      RETURN;
562      0620
563      0621 1    END;                                ! End of routine PASS$PROMPT_FILE

```

```

.EXTRN SYSSPUT, PASS$SIGNAL
.EXTRN PASSK_ERRDURPRO

```

50	EC	A7	E8	A7	C3 00000 PASS\$PROMPT FILE:	
					SUBC3	-24(FCB), -20(FCB), CHAR\$_IN_LINE
28	A7		E8	49 13 00006	BEQL	58
22	A7		E8	50 D0 00008	MOVL	-24(FCB), 40(FCB)
			FD	50 B0 0000D	MOVW	CHAR\$_IN_LINE, 34(FCB)
				FD 95 00011	TSTB	-3(FCB)
				FA 05 18 00014	BGEQ	1\$
				FA A7 B4 00016	CLRW	-6(FCB)
				FA 04 11 00019	BRB	2\$
				FA A7 01 B0 00018 1\$:	MOVW	#1, -6(FCB)

```

: 0580
: 0581
: 0588
: 0589
: 0596
: 0598
: 0600
: 0601
: 0602
: 0603
: 0604
: 0605
: 0606
: 0607
: 0608
: 0609
: 0610
: 0611
: 0612
: 0613
: 0614
: 0615
: 0616
: 0617
: 0618
: 0619
: 0620
: 0621

```

PASSFILE\_UTIL File manipulation utility procedures  
1-005 PASSPROMPT\_FILE - Prompt on a prompt-enabled file

{ 8  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29

VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 16  
(6)

00000000G 00	57 DD 0001F 28:	PUSHL FCB	: 0606
1C	01 FB 00021	CALLS #1, SY\$PUT	
0001825A 8F	50 E8 00028	BLBS \$S\$STATUS, 4\$	
	50 D1 0002B	CMPL \$S\$STATUS, #98906	
	04 12 00032	BNEQ 3\$	
E7	FF A7 E8 00034	BLBS -1(FCB), 2\$	
OC	50 E8 00038 38:	BLBS \$S\$STATUS, 4\$	
7E	00G 8F 9A 0003B	MOVZBL #PASSKERRDURPRO, -(SP)	: 0608
00000000G 00	01 FB 0003F	CALLS #1, PASS\$SIGNAL	
	05 00046	RSB	
EC A7	E8 A7 D0 00047 48:	MOVL -24(FCB), -20(FCB)	: 0614
FD A7	80 8F 88 0004C	BISB2 #128, -3(FCB)	: 0615
	05 00051 58:	RSB	: 0621

: Routine Size: 82 bytes. Routine Base: \_PASS\$CODE + 0113

: 564 0622 1  
: 565 0623 1 !<BLF/PAGE>

567 0624 1 %SBTTL 'PAS\$CLOSE\_ALL - Close all open files'  
568 0625 1 GLOBAL ROUTINE PAS\$CLOSE\_ALL  
569 0626 1 : NOVALUE =  
570 0627 1 !++  
571 0628 1 FUNCTIONAL DESCRIPTION:  
572 0629 1 Closes all open files. This procedure is called from the exit  
573 0630 1 handler declared by PAS\$OPEN.  
574 0631 1 CALLING SEQUENCE:  
575 0632 1 PAS\$CLOSE\_ALL ()  
576 0633 1 FORMAL PARAMETERS:  
577 0634 1 NONE  
578 0635 1 IMPLICIT INPUTS:  
579 0636 1 FILE\_QUEUE  
580 0637 1 IMPLICIT OUTPUTS:  
581 0638 1 NONE  
582 0639 1 COMPLETION STATUS:  
583 0640 1 NONE  
584 0641 1 SIDE EFFECTS:  
585 0642 1 Closes all open files, and removes their control blocks  
586 0643 1 from the queue.  
587 0644 1 SIGNALLED ERRORS:  
588 0645 1 NONE  
589 0646 1 --  
590 0647 1 BEGIN  
591 0648 1 LOCAL  
592 0649 1 FCB: REF \$PAS\$FCB CONTROL\_BLOCK,  
593 0650 1 DUMMY PFV: \$PAS\$PFV\_FILE\_VARIABLE,  
594 0651 1 AST\_STATUS;  
595 0652 1 ! File control block  
596 0653 1 ! Dummy PFV for local use  
597 0654 1 ! Status from \$SETAST  
598 0655 1 BUILTIN  
599 0656 1 REMQUE;  
600 0657 1 !+ If queue not initialized, nothing to close.  
601 0658 1 !-  
602 0659 1 IF NOT .QUEUE\_INITIALIZED  
603 0660 1 THEN  
604 0661 1 RETURN;

```

624      0681 2
625      0682 2
626      0683 2
627      0684 2
628      0685 2
629      0686 2
630      0687 2
631      0688 2
632      0689 2
633      0690 2
634      0691 2
635      0692 2
636      0693 2
637      0694 2
638      0695 2
639      0696 2
640      0697 2
641      0698 2
642      0699 2
643      0700 3
644      0701 3
645      0702 3
646      0703 3
647      0704 4
648      0705 4
649      0706 4
650      0707 4
651      0708 4
652      0709 4
653      0710 4
654      0711 4
655      0712 3
656      0713 2
657      0714 2
658      0715 2
659      0716 2
660      0717 2
661      0718 2
662      0719 2
663      0720 2
664      0721 2
665      0722 2
666      0723 2
667      0724 2
668      0725 1

+ Set up dummy PFV. We will use this to close files since
| the true PFV may be invalid.
-
DUMMY_PVF [PFVSW_FLAGS] = 0;

+ Disable ASTs
-
AST_STATUS = $SETAST (ENBFLG=0);

+ Remove all files from the queue, and close those still open.
-
UNTIL (REMQUE (.FILE_QUEUE [0], FCB)) DO ! True when REMQUE fails
    BEGIN
        FCB = FCB [FCBSR FCB] + FCBSK_BLN; ! Get correct FCB origin
        IF NOT .FCB [FCBSV DEALLOC]
        THEN
            BEGIN
                +
                | Use dummy PFV to do the close.
                -
                DUMMY_PVF [PFVSA_FCB] = FCB [FCBSR FCB];
                DUMMY_PVF [PFVSA_PFD] = .FCB [FCBSA_PFD];
                DUMMY_PVF [PFVSV_FCB_VALID] = 1;
                DO CLOSE (DUMMY_PVF [PFVSR_PVF]); ! Close the file
            END;
        END;

+ If ASTs were previously enabled, reenable them.
-
IF .AST_STATUS EQL SSS_WASSET
THEN
    SSETAST (ENBFLG = 1);

RETURN;

END; ! End of routine PASSSCLOSE_ALL

```

**EXTRN SYSSSETAST**

54 00000000G	00 9E 00002	.ENTRY	PASSCLOSE_ALL. Save R2,R3,R4
SE	10 C2 00009	MOVAB	SYSSSETAST, R4
3E 00000000'	EF E9 0000C	SUBL2	#16, SP
	06 AE B4 00013	BLBC	QUEUE_INITIALIZED, 3S
	7E D4 00016	CLRW	DUMMY_PFV+6
64	01 FB 00018	CLRL	-(SP)
		CALLS	#1, SYSSSETAST

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 PASS\$CLOSE\_ALL - Close all open files

F 8  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29 VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 19  
(7)

PA  
1-

	53	50	D0	0001B	1\$:	MOVL	R0	AST_STATUS	
	52	FF	0F	0001E		REMOUE	2FILE_QDEQUE	, FCB	0699
	EE	52	20	1D	00025	BVS	2\$		
	FE	A2	A2	9E	00027	MOVAB	68(R2)	, FCB	0701
	0C	AE	01	E0	00028	BBS	#1	-2(FCB)	0702
	08	AE	52	D0	00030	MOVL	FCB,	DUMMY_PFV+12	0708
	07	AE	A2	D0	00034	MOVL	-28(FCB),	DUMMY_PFV+8	0709
			8F	88	00039	BISB2	#64,	DUMMY_PFV+7	0710
			SE	DD	0003E	PUSHL	SP		0711
		0000V	CF	01	FB	00040	CALLS	#1, DO_CLOSE	
				D7	11	00045	BRB	1\$	0699
				09	53	D1	00047	2\$: CMPL AST_STATUS, #9	0719
					05	12	0004A	BNEQ 3\$	
					01	DD	0004C	PUSHL #1	0721
					01	FB	0004E	CALLS #1, SYSSSETAST	
					04	00051	3\$: RET		0725

; Routine Size: 82 bytes, Routine Base: \_PASS\$CODE + 0165

: 669 0726 1  
: 670 0727 1 !<BLF/PAGE>

```

    672      0728 1 %SBTTL 'PASSCLOSE LOCAL R3 - Close local files'
    673      0729 1 GLOBAL ROUTINE PASSCLOSE LOCAL R3
    674      0730 1 : JSB_CLOSE_LOCAL NOVALUE=
    675      0731 1
    676      0732 1 ++
    677      0733 1 FUNCTIONAL DESCRIPTION:
    678      0734 1 Closes all open files which were declared local by our caller.
    679      0735 1
    680      0736 1 CALLING SEQUENCE:
    681      0737 1 JSB PASSCLOSE_LOCAL_R3
    682      0738 1
    683      0739 1 FORMAL PARAMETERS:
    684      0740 1 : NONE
    685      0741 1
    686      0742 1 IMPLICIT INPUTS:
    687      0743 1 Current FP (Caller's)
    688      0744 1
    689      0745 1 IMPLICIT OUTPUTS:
    690      0746 1 : NONE
    691      0747 1
    692      0748 1 COMPLETION STATUS:
    693      0749 1 : NONE
    694      0750 1
    695      0751 1 SIDE EFFECTS:
    696      0752 1 Preserves registers 0 and 1.
    697      0753 1 See PASSCLOSE_LOCAL
    698      0754 1
    699      0755 1 SIGNALLED ERRORS:
    700      0756 1 : NONE
    701      0757 1
    702      0758 1
    703      0759 1 -- BEGIN
    704      0760 1
    705      0761 1
    706      0762 1
    707      0763 1
    708      0764 1
    709      0765 1
    710      0766 1
    711      0767 2
    712      0768 2
    713      0769 2
    714      0770 2
    715      0771 2
    716      0772 2
    717      0773 2
    718      0774 2
    719      0775 2
    720      0776 2
    721      0777 2
    722      0778 2
    723      0779 2
    724      0780 2
    725      0781 1
    726      0782 1
    727      0783 1
    728      0784 1
    729      0785 1
    730      0786 1
    731      0787 1
    732      0788 1
    733      0789 1
    734      0790 1
    735      0791 1
    736      0792 1
    737      0793 1
    738      0794 1
    739      0795 1
    740      0796 1
    741      0797 1
    742      0798 1
    743      0799 1
    744      0800 1
    745      0801 1
    746      0802 1
    747      0803 1
    748      0804 1
    749      0805 1
    750      0806 1
    751      0807 1
    752      0808 1
    753      0809 1
    754      0810 1
    755      0811 1
    756      0812 1
    757      0813 1
    758      0814 1
    759      0815 1
    760      0816 1
    761      0817 1
    762      0818 1
    763      0819 1
    764      0820 1
    765      0821 1
    766      0822 1
    767      0823 1
    768      0824 1
    769      0825 1
    770      0826 1
    771      0827 1
    772      0828 1
    773      0829 1
    774      0830 1
    775      0831 1
    776      0832 1
    777      0833 1
    778      0834 1
    779      0835 1
    780      0836 1
    781      0837 1
    782      0838 1
    783      0839 1
    784      0840 1
    785      0841 1
    786      0842 1
    787      0843 1
    788      0844 1
    789      0845 1
    790      0846 1
    791      0847 1
    792      0848 1
    793      0849 1
    794      0850 1
    795      0851 1
    796      0852 1
    797      0853 1
    798      0854 1
    799      0855 1
    800      0856 1
    801      0857 1
    802      0858 1
    803      0859 1
    804      0860 1
    805      0861 1
    806      0862 1
    807      0863 1
    808      0864 1
    809      0865 1
    810      0866 1
    811      0867 1
    812      0868 1
    813      0869 1
    814      0870 1
    815      0871 1
    816      0872 1
    817      0873 1
    818      0874 1
    819      0875 1
    820      0876 1
    821      0877 1
    822      0878 1
    823      0879 1
    824      0880 1
    825      0881 1
    826      0882 1
    827      0883 1
    828      0884 1
    829      0885 1
    830      0886 1
    831      0887 1
    832      0888 1
    833      0889 1
    834      0890 1
    835      0891 1
    836      0892 1
    837      0893 1
    838      0894 1
    839      0895 1
    840      0896 1
    841      0897 1
    842      0898 1
    843      0899 1
    844      0900 1
    845      0901 1
    846      0902 1
    847      0903 1
    848      0904 1
    849      0905 1
    850      0906 1
    851      0907 1
    852      0908 1
    853      0909 1
    854      0910 1
    855      0911 1
    856      0912 1
    857      0913 1
    858      0914 1
    859      0915 1
    860      0916 1
    861      0917 1
    862      0918 1
    863      0919 1
    864      0920 1
    865      0921 1
    866      0922 1
    867      0923 1
    868      0924 1
    869      0925 1
    870      0926 1
    871      0927 1
    872      0928 1
    873      0929 1
    874      0930 1
    875      0931 1
    876      0932 1
    877      0933 1
    878      0934 1
    879      0935 1
    880      0936 1
    881      0937 1
    882      0938 1
    883      0939 1
    884      0940 1
    885      0941 1
    886      0942 1
    887      0943 1
    888      0944 1
    889      0945 1
    890      0946 1
    891      0947 1
    892      0948 1
    893      0949 1
    894      0950 1
    895      0951 1
    896      0952 1
    897      0953 1
    898      0954 1
    899      0955 1
    900      0956 1
    901      0957 1
    902      0958 1
    903      0959 1
    904      0960 1
    905      0961 1
    906      0962 1
    907      0963 1
    908      0964 1
    909      0965 1
    910      0966 1
    911      0967 1
    912      0968 1
    913      0969 1
    914      0970 1
    915      0971 1
    916      0972 1
    917      0973 1
    918      0974 1
    919      0975 1
    920      0976 1
    921      0977 1
    922      0978 1
    923      0979 1
    924      0980 1
    925      0981 1
    926      0982 1
    927      0983 1
    928      0984 1
    929      0985 1
    930      0986 1
    931      0987 1
    932      0988 1
    933      0989 1
    934      0990 1
    935      0991 1
    936      0992 1
    937      0993 1
    938      0994 1
    939      0995 1
    940      0996 1
    941      0997 1
    942      0998 1
    943      0999 1
    944      0999 1
    945      0999 1
    946      0999 1
    947      0999 1
    948      0999 1
    949      0999 1
    950      0999 1
    951      0999 1
    952      0999 1
    953      0999 1
    954      0999 1
    955      0999 1
    956      0999 1
    957      0999 1
    958      0999 1
    959      0999 1
    960      0999 1
    961      0999 1
    962      0999 1
    963      0999 1
    964      0999 1
    965      0999 1
    966      0999 1
    967      0999 1
    968      0999 1
    969      0999 1
    970      0999 1
    971      0999 1
    972      0999 1
    973      0999 1
    974      0999 1
    975      0999 1
    976      0999 1
    977      0999 1
    978      0999 1
    979      0999 1
    980      0999 1
    981      0999 1
    982      0999 1
    983      0999 1
    984      0999 1
    985      0999 1
    986      0999 1
    987      0999 1
    988      0999 1
    989      0999 1
    990      0999 1
    991      0999 1
    992      0999 1
    993      0999 1
    994      0999 1
    995      0999 1
    996      0999 1
    997      0999 1
    998      0999 1
    999      0999 1
    1000     0999 1
    1001     0999 1
    1002     0999 1
    1003     0999 1
    1004     0999 1
    1005     0999 1
    1006     0999 1
    1007     0999 1
    1008     0999 1
    1009     0999 1
    1010     0999 1
    1011     0999 1
    1012     0999 1
    1013     0999 1
    1014     0999 1
    1015     0999 1
    1016     0999 1
    1017     0999 1
    1018     0999 1
    1019     0999 1
    1020     0999 1
    1021     0999 1
    1022     0999 1
    1023     0999 1
    1024     0999 1
    1025     0999 1
    1026     0999 1
    1027     0999 1
    1028     0999 1
    1029     0999 1
    1030     0999 1
    1031     0999 1
    1032     0999 1
    1033     0999 1
    1034     0999 1
    1035     0999 1
    1036     0999 1
    1037     0999 1
    1038     0999 1
    1039     0999 1
    1040     0999 1
    1041     0999 1
    1042     0999 1
    1043     0999 1
    1044     0999 1
    1045     0999 1
    1046     0999 1
    1047     0999 1
    1048     0999 1
    1049     0999 1
    1050     0999 1
    1051     0999 1
    1052     0999 1
    1053     0999 1
    1054     0999 1
    1055     0999 1
    1056     0999 1
    1057     0999 1
    1058     0999 1
    1059     0999 1
    1060     0999 1
    1061     0999 1
    1062     0999 1
    1063     0999 1
    1064     0999 1
    1065     0999 1
    1066     0999 1
    1067     0999 1
    1068     0999 1
    1069     0999 1
    1070     0999 1
    1071     0999 1
    1072     0999 1
    1073     0999 1
    1074     0999 1
    1075     0999 1
    1076     0999 1
    1077     0999 1
    1078     0999 1
    1079     0999 1
    1080     0999 1
    1081     0999 1
    1082     0999 1
    1083     0999 1
    1084     0999 1
    1085     0999 1
    1086     0999 1
    1087     0999 1
    1088     0999 1
    1089     0999 1
    1090     0999 1
    1091     0999 1
    1092     0999 1
    1093     0999 1
    1094     0999 1
    1095     0999 1
    1096     0999 1
    1097     0999 1
    1098     0999 1
    1099     0999 1
    1100     0999 1
    1101     0999 1
    1102     0999 1
    1103     0999 1
    1104     0999 1
    1105     0999 1
    1106     0999 1
    1107     0999 1
    1108     0999 1
    1109     0999 1
    1110     0999 1
    1111     0999 1
    1112     0999 1
    1113     0999 1
    1114     0999 1
    1115     0999 1
    1116     0999 1
    1117     0999 1
    1118     0999 1
    1119     0999 1
    1120     0999 1
    1121     0999 1
    1122     0999 1
    1123     0999 1
    1124     0999 1
    1125     0999 1
    1126     0999 1
    1127     0999 1
    1128     0999 1
    1129     0999 1
    1130     0999 1
    1131     0999 1
    1132     0999 1
    1133     0999 1
    1134     0999 1
    1135     0999 1
    1136     0999 1
    1137     0999 1
    1138     0999 1
    1139     0999 1
    1140     0999 1
    1141     0999 1
    1142     0999 1
    1143     0999 1
    1144     0999 1
    1145     0999 1
    1146     0999 1
    1147     0999 1
    1148     0999 1
    1149     0999 1
    1150     0999 1
    1151     0999 1
    1152     0999 1
    1153     0999 1
    1154     0999 1
    1155     0999 1
    1156     0999 1
    1157     0999 1
    1158     0999 1
    1159     0999 1
    1160     0999 1
    1161     0999 1
    1162     0999 1
    1163     0999 1
    1164     0999 1
    1165     0999 1
    1166     0999 1
    1167     0999 1
    1168     0999 1
    1169     0999 1
    1170     0999 1
    1171     0999 1
    1172     0999 1
    1173     0999 1
    1174     0999 1
    1175     0999 1
    1176     0999 1
    1177     0999 1
    1178     0999 1
    1179     0999 1
    1180     0999 1
    1181     0999 1
    1182     0999 1
    1183     0999 1
    1184     0999
```

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 PASSCLOSE\_LOCAL\_R3 - Close local files

H 8  
16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:51:29 [PASRTL.SRC]PASFILEUT.B32;1

Page 21  
(8)

5D DD 00000 PASSCLOSE\_LOCAL\_R3::  
0000V 30 00002 PUSHL FP  
SE 04 C0 00005 BSBW PASS\$CLOSE\_LOCAL  
05 00008 ADDL2 #4, SP  
RSB

: 0777

: 0781

: Routine Size: 9 bytes. Routine Base: \_PASSCODE + 01B7

: 726 0782 1  
: 727 0783 1 !<BLF/PAGE>

```

729      0784 1 %SBTTL 'PAS$CLOSE_LOCAL - Close local files'
730      0785 1 GLOBAL ROUTINE PAS$CLOSE_LOCAL (PROCEDURE_FP)
731          : JSB_CLOSE_LOCAL NOVALUE =
732      0787 1 ++
733      0788 1 FUNCTIONAL DESCRIPTION:
734          0789 1 Closes all open files which were declared local by our caller.
735          0790 1 CALLING SEQUENCE:
736          0791 1 JSB PAS$CLOSE_LOCAL (PROCEDURE_FP.rlu.v)
737          0792 1 FORMAL PARAMETERS:
738          0793 1 PROCEDURE_FP - This is the frame pointer of the procedure for
739          0794 1 which we are closing its local files. This
740          0795 1 value is passed on the stack.
741          0796 1 IMPLICIT INPUTS:
742          0797 1 Our SP
743          0798 1 FILE_QUEUE
744          0799 1 REQUEST_LEVEL
745          0800 1 QUEUE_INITIALIZED
746          0801 1 REMOVE_REQUESTED
747          0802 1
748          0803 1 IMPLICIT OUTPUTS:
749          0804 1     NONE
750          0805 1 COMPLETION STATUS:
751          0806 1     NONE
752          0807 1 SIDE EFFECTS:
753          0808 1     Closes all open files whose PFVs are between PROCEDURE_FP and SP
754          0809 1 (i.e. declared locally in our caller's procedure).
755          0810 1 SIGNALLED ERRORS:
756          0811 1     NONE
757          0812 1 -- BEGIN
758          0813 1 LOCAL
759          0814 1     FCB: REF SPASSFCB_CONTROL_BLOCK,
760          0815 1             ! File control block
761          0816 1             NEXT_FCB,
762          0817 1             REMQUE_OK;
763          0818 1             ! Next FCB in QUEUE
764          0819 1             ! TRUE if ok to do REMQUEs
765          0820 1
766          0821 1     BUILTIN
767          0822 1             REMQUE,
768          0823 1             SP;
769          0824 1
770          0825 1
771          0826 1
772          0827 1
773          0828 1
774          0829 2
775          0830 2
776          0831 2
777          0832 2
778          0833 2
779          0834 2
780          0835 2
781          0836 2
782          0837 2
783          0838 2
784          0839 2
785          0840 2 ++

```

```

786    0841 2      ! If queue not initialized, nothing to close.
787    0842 2
788    0843 2
789    0844 2      IF NOT .QUEUE_INITIALIZED
790    0845 2      THEN
791    0846 2      RETURN;
792    0847 2
793    0848 2
794    0849 2      !+ Increment REQUEST_LEVEL and set REMQUE_OK appropriately.
795    0850 2
796    0851 2
797    0852 2      IF (REQUEST_LEVEL = .REQUEST_LEVEL + 1) NEQ 0
798    0853 2      THEN
799    0854 2      REMQUE_OK = 0
800    0855 2      ELSE
801    0856 2      REMQUE_OK = 1;
802    0857 2
803    0858 2
804    0859 2      !+ Get the first FCB from the queue.
805    0860 2
806    0861 2
807    0862 2      FCB = .FILE_QUEUE [0];           ! Forward link
808    0863 2
809    0864 2
810    0865 2      !+ While there are files left, look for local files to close.
811    0866 2
812    0867 2
813    0868 2      WHILE (FCB [FCBSR_FCB] NEQA FILE_QUEUE) DO ! Stop when we get back to header
814    0869 3      BEGIN
815    0870 3      FCB = FCB [FCBSR_FCB] + FCB$K_BLN;   ! Get correct FCB origin
816    0871 3      NEXT_FCB = .FCB [FCBSL_QUEUE_FLINK]; ! Next file in queue
817    0872 3      IF NOT .FCB [FCBSV_DEA[LOC] AND NOT .FCB [FCBSV_STATIC]
818    0873 3      THEN
819    0874 4      BEGIN
820    0875 4      LOCAL
821    0876 4      PFV: REF $PAS$PFV_FILE_VARIABLE;
822    0877 4      PFV = .FCB [FCBSA_PFV];           ! Get PFV
823    0878 4      IF PFV [PFV$R_PFV] LSSA .PROCEDURE_FP AND PFV [PFV$R_PFV] GTRA .SP
824    0879 4      THEN
825    0880 5      BEGIN
826    0881 5      !+ We have a local file. We can't be guaranteed that the
827    0882 5      contents of the PFV are valid, so set the necessary items
828    0883 5      here. Close the file.
829    0884 5
830    0885 5
831    0886 5
832    0887 5      PFV [PFV$W_FLAGS] = 0;
833    0888 5      PFV [PFV$V_LOCK] = 1;
834    0889 5      PFV [PFV$V_FCB_VALID] = 1;
835    0890 5      PFV [PFV$A_FCB] = FCB [FCBSR_FCB];
836    0891 5      PFV [PFV$A_PFD] = .FCB [FCBSA_PFD];
837    0892 5      DO_CLOSE (PFV [PFV$R_PFV]);
838    0893 5
839    0894 5      !+ Remove the file from the queue. This will either be
840    0895 5      a REMQUE or a request to remove.
841    0896 5
842    0897 5

```

```

843 0898 5
844 0899 5
845 0900 5
846 0901 6
847 0902 6
848 0903 6
849 0904 6
850 0905 6
851 0906 6
852 0907 5
853 0908 6
854 0909 6
855 0910 6
856 0911 5
857 0912 4
858 0913 3
859 0914
860 0915
861 0916
862 0917
863 0918
864 0919
865 0920
866 0921
867 0922
868 0923
869 0924
870 0925
871 0926
872 0927
873 0928
874 0929
875 0930
876 0931
877 0932
878 0933
879 0934
880 0935
881 0936 1

        IF .REMOVE_OK
        THEN
            BEGIN
                LOCAL
                    ITEM_ADDR;
                    REMQUE (FCB [FCB$L_QUEUE_FLINK], ITEM_ADDR);
                    ! Output from REMQUE
                    PASSFREE_VM (PASSR_FILE_DYN_BLN, ITEM_ADDR);
                END
            ELSE
                BEGIN
                    FCB [FCB$V DEALLOC] = 1;
                    REMOVE_REQUESTED = 1;
                END;
            END;
        END;

        !+ Get next FCB from queue.
        FCB = .NEXT_FCB;
    END;

    !+ Decrement REQUEST_LEVEL.
    REQUEST_LEVEL = .REQUEST_LEVEL - 1;

    !+ If a remove request has been made, service it.
    IF .REMOVE_REQUESTED
    THEN
        SERVICE_REQUEST ();
    RETURN;
END;                                ! End of routine PASSCLOSE_LOCAL

```

03	BB 00000 PASSCLOSE LOCAL::		
SE	08 C2 00002	PUSHR	#M<R0,R1>
03 00000000'	EF E8 00005	SUBL2	#8 SP
0099 00000000'	31 0000C	BLBS	QUEUE_INITIALIZED, 1\$
EF 0000F	18:	BRW	8\$
04	13 00015	INCL	REQUEST_LEVEL
6E	D4 00017	BEQL	2\$
03	11 00019	CLRL	REMQUE_OK
6E	01 00 0001B	BRB	3\$
52 00000000'	EF 00 0001E	MOVL	#1, REMQUE_OK
50 00000000'	38:	MOVL	FILE_QUEUE_FCB
50	EF 9E 00025	MOVAB	FILE_QUEUE_R0
	48:	CMPL	FCB_R0

: 0785  
 : 0844  
 : 0852  
 : 0854  
 : 0856  
 : 0862  
 : 0868

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 PASS\$CLOSE\_LOCAL - Close local files

L 8  
16-Sep-1984 01:33:01 VAX-11 Bliss-32 v4.0-742  
14-Sep-1984 12:51:29 [PASRTL.SRC]PASF ILEUT.B32;1

Page 25  
(9)

PA  
1-

53	52	44	65	13	0002F	BEQL	7\$	0870	
	53	BC	A2	9E	00031	MOVAB	68(R2), FCB	0871	
	A2		A2	D0	00035	MOVL	-68(FCB), NEXT_FCB	0872	
	A2		01	E0	00039	BBS	#1, -2(FCB), 6\$	0877	
	50		06	E0	0003E	BBS	#6, -8(FCB), 6\$	0878	
14	AE	DC	A2	D0	00043	MOVL	-36(FCB), PFV		
			50	D1	00047	CMLP	PFV, PROCEDURE_FP		
	5E		44	1E	0004B	BGEQU	6\$		
			50	D1	0004D	CMLP	PFV, SP		
			3F	1B	00050	BLEQU	6\$		
07	A0	06	A0	B4	00052	CLRW	6(PFV)	0887	
0C	A0	C0	8F	88	00055	BISB2	#192, 7(PFV)	0889	
08	A0	E4	52	D0	0005A	MOVL	FCB, 12(PFV)	0890	
			A2	D0	0005E	MOVL	-28(FCB), 8(PFV)	0891	
			50	DD	00063	PUSHL	PFV	0892	
0000V	CF		01	FB	00065	CALLS	#1, DO_CLOSE		
	19		6E	E9	0006A	BLBC	REMQUE_OK, 5\$	0899	
	50	BC	A2	9E	0006D	MOVAB	-68(FCB), R0	0904	
04	AE		60	0F	00071	REMQUE	(R0), ITEM_ADDR		
			AE	9F	00075	PUSHAB	ITEM_ADDR	0905	
	7E	04	8F	3C	00078	MOVZWL	#312, -(SP)		
0000000006	00	0138	02	FB	0007D	CALLS	#2, PASSFREE_VM		
			08	11	00084	BRB	6\$	0899	
	FE	A2	02	88	00086	5\$:	BISB2	0909	
000000000	EF		01	D0	0008A	MOVL	#1, REMOVE REQUESTED	0910	
	52		53	D0	00091	6\$:	MOVL	NEXT_FCB FCB	0917
			8F	11	00094	BRB	4\$	0868	
	05	000000000	EF	D7	00096	7\$:	DECL	REQUEST LEVEL	0924
	05	000000000	EF	E9	0009C	BLBC	REMOVE REQUESTED, 8\$	0930	
0000V	CF		00	FB	000A3	CALLS	#0, SERVICE_REQUEST	0932	
	5E		08	C0	000A8	8\$:	ADDL2	#8, SP	0936
			03	BA	000AB	POPR	#^M<R0,R1>		
			05	000AD		RSB			

; Routine Size: 174 bytes, Routine Base: \_PASSCODE + 01C0

: 882 0937 1  
: 883 0938 1 !<BLF/PAGE>

```

885    0939 1 %SBTTL 'DO_CLOSE - Close a file'
886    0940 1 ROUTINE DO_CLOSE (
887    0941 1     PFV: REF $PAS$PFV_FILE_VARIABLE
888    0942 1     ): NOVALUE =
889    0943 1
890    0944 1 //+
891    0945 1 // FUNCTIONAL DESCRIPTION:
892    0946 1
893    0947 1 This routine closes a Pascal file. This entry is called from
894    0948 1 PASS$CLOSE_ALL and PASS$CLOSE_LOCAL. It is different from
895    0949 1 PASS$CLOSE2 only in that it does not call PASS$REMOVE_FILE to
896    0950 1 remove the FCB from the list of open files.
897    0951 1
898    0952 1 CALLING SEQUENCE:
899    0953 1
900    0954 1     CALL DO_CLOSE (PFV.MR.R)
901    0955 1
902    0956 1 FORMAL PARAMETERS:
903    0957 1
904    0958 1     PFV           - The Pascal File Variable (PFV) passed by reference.
905    0959 1             The structure of the PFV is defined in PASPFV.REQ.
906    0960 1
907    0961 1 IMPLICIT INPUTS:
908    0962 1     NONE
909    0963 1
910    0964 1 IMPLICIT OUTPUTS:
911    0965 1     NONE
912    0966 1
913    0967 1
914    0968 1
915    0969 1 ROUTINE VALUE:
916    0970 1     NONE
917    0971 1
918    0972 1
919    0973 1 SIDE EFFECTS:
920    0974 1     See PASS$CLOSE
921    0975 1
922    0976 1
923    0977 1 SIGNALLED ERRORS:
924    0978 1     ERRDURCLO - error during CLOSE
925    0979 1
926    0980 1
927    0981 1 //-
928    0982 1
929    0983 2 BEGIN
930    0984 2
931    0985 2 LOCAL
932    0986 2     PFV_ADDR: VOLATILE;           ! Enable argument
933    0987 2
934    0988 2 //+
935    0989 2     // Enable a local condition handler to intercept any signals from
936    0990 2     // trying to close the file.
937    0991 2 //-
938    0992 2
939    0993 2 ENABLE
940    0994 2     DO_CLOSE_HANDLER (PFV_ADDR);
941    0995 2

```

PASSFILE\_UTIL File manipulation utility procedures  
1-005 DO\_CLOSE - Close a file

N 8  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29  
VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 27  
(10)

942 0996 2 |+  
943 0997 2 | Lock PFV We don't care if it is already locked.  
944 0998 2 |-  
945 0999 2  
946 1000 2 PFV [PFVSV\_LOCK] = 1;  
947 1001 2  
948 1002 2 |+ Set PFV\_ADDR enable argument.  
949 1003 2 |-  
950 1004 2  
951 1005 2  
952 1006 2 PFV\_ADDR = PFV [PFVSR\_PFV];  
953 1007 2  
954 1008 2  
955 1009 2 |+ Call PASSCLOSE to do the work.  
956 1010 2 |-  
957 1011 2  
958 1012 2  
959 1013 2  
960 1014 2 |+ Invalidate information in PFV  
961 1015 2 |-  
962 1016 2  
963 1017 2  
964 1018 2 PFV [PFVSV\_FCB\_VALID] = 0;  
965 1019 2 PFV [PFVSA\_FCB] = 0;  
966 1020 2  
967 1021 2  
968 1022 2  
969 1023 1 RETURN;  
END:

! End of routine DO\_CLOSE

.EXTRN PASSCLOSE

0004 00000 DO\_CLOSE:  
07 6D 001F 7E D4 00002 .WORD Save R2  
07 52 04 CF DE 00004 CLRL PFV\_ADDR  
07 A2 80 AC DO 00009 MOVAL 1\$, -(FP)  
07 6E 80 8F 88 0000D MOVL PFV\_R2  
00000000G 00 52 D0 00012 BISB2 #128, 7(R2)  
07 A2 40 52 DD 00015 MOVL R2, PFV\_ADDR  
07 40 8F 01 FB 00017 PUSHL R2  
07 A2 0C A2 D4 00023 CALLS #1, PASSCLOSE  
07 0C D4 00023 BICB2 #64, 7(R2)  
07 04 00026 CLRL 12(R2)  
07 0000 00027 1\$: RET  
50 08 AC DO 00029 .WORD Save nothing  
50 04 A0 DO 0002D MOVL 8(AP), R0  
50 FC A0 9F 00031 MOVL 4(R0), R0  
01 0D 00034 PUSHAB PFV\_ADDR  
01 SE DD 00036 PUSHL #1  
0000V 7E 04 AC 7D 00038 PUSHL SP  
CF 03 FB 0003C MOVQ 4(AP), -(SP)  
04 00041 CALLS #3, DO\_CLOSE\_HANDLER  
RET

; Routine Size: 66 bytes, Routine Base: \_PASSCODE + 026E

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 DO\_CLOSE - [Close a file]

8 9  
16-Sep-1984 01:33:01 14-Sep-1984 12:51:29 VAX-11 Bliss-32 v4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 28  
(10)

: 970 1024 1  
: 971 1025 1 !<BLF/PAGE>

```

: 973      1026 1 XSBTTL 'DO CLOSE_HANDLER - Error handler for DO_CLOSE'
: 974      1027 1 ROUTINE DO CLOSE_HANDLER (
: 975      1028 1     SIGNAL_ARGS: REF BLOCK [, BYTE],           ! Signal arguments array
: 976      1029 1     MECH_ARGS: REF BLOCK [, BYTE],          ! Mechanism arguments array
: 977      1030 1     ENABLE_ARGS: REF VECTOR [, LONG]       ! Enable arguments array
: 978      1031 1   ) =
: 979
: 980
: 981      1032 1   ++
: 982      1033 1   : FUNCTIONAL DESCRIPTION:
: 983      1034 1
: 984      1035 1
: 985      1036 1   This is the condition handler enabled by DO CLOSE.
: 986      1037 1   If the current exception is a PASS message for the file
: 987      1038 1   our establisher was processing, intercept the signal, use
: 988      1039 1   SPUTMSG to display the message text, and unwind to our
: 989      1040 1   establisher's caller.
: 990      1041 1
: 991      1042 1   The reason for using SPUTMSG is that DO CLOSE may be called
: 992      1043 1   from PASSHANDLER during an unwind. The current VAX
: 993      1044 1   condition handling architecture does not specify what happens
: 994      1045 1   when an exception occurs during an unwind, and the current
: 995      1046 1   implementation performs the search for handlers incorrectly.
: 996      1047 1   We are safe as long as we don't let the signal outside of the RTL.
: 997
: 998      1048 1
: 999      1049 1   CALLING SEQUENCE:
:1000      1050 1
:1001      1051 1   status.wlc.v = DO_CLOSE_HANDLER (SIGNAL_ARGS.rl.ra, MECH_ARGS.rl.ra
:1002      1052 1           , ENABLE_ARGS.rl.ra)
:1003      1053 1
:1004      1054 1   FORMAL PARAMETERS:
:1005      1055 1
:1006      1056 1   SIGNAL_ARGS      - The signal argument list.
:1007      1057 1
:1008      1058 1   MECH_ARGS        - The mechanism argument list.
:1009      1059 1
:1010      1060 1   ENABLE_ARGS       - An array with the following
:1011      1061 1           format:
:1012      1062 1
:1013      1063 1
:1014      1064 1           +-----+
:1015      1065 1           | ENB_COUNT    | <- ENABLE_ARGS
:1016      1066 1           +-----+
:1017      1067 1           | ENB_PV_ADDR  |
:1018      1068 1           +-----+
:1019      1069 1
:1020      1070 1           ENB_COUNT is the count of following enable arguments.
:1021      1071 1           The count is always 1.
:1022      1072 1
:1023      1073 1           ENB_PV_ADDR - If non-zero, the address of a longword
:1024      1074 1           containing the PV our establisher is operating on.
:1025      1075 1
:1026      1076 1
:1027      1077 1           The signaller's PV placed as the first FAO argument in the primary
:1028      1078 1           signalled message.
:1029      1079 1
:1030      1080 1
:1031      1081 1
:1032      1082 1           IMPLICIT OUTPUTS:
:1033
:1034      1083 1           May use SPUTMSG to write a message

```

1030           1083 1 | ROUTINE VALUE:  
1031           1084 1 |        SS\$\_RESIGNAL  
1032           1085 1 |  
1033           1086 1 | SIDE EFFECTS:  
1034           1087 1 |        May cause an unwind.  
1035           1088 1 |  
1036           1089 1 |  
1037           1090 1 |  
1038           1091 1 |  
1039           1092 1 |  
1040           1093 1 |  
1041           1094 2 | BEGIN  
1042           1095 2 |  
1043           1096 2 | LITERAL  
1044           1097 2 |     ENB\_COUNT = 0,           ! Count of enable arguments  
1045           1098 2 |     ENB\_PFV\_ADDR = 1;      ! Address of address of PFV  
1046           1099 2 |  
1047           1100 2 | BUILTIN  
1048           1101 2 |     ACTUALCOUNT;  
1049           1102 2 |  
1050           1103 2 |  
1051           1104 2 |  
1052           1105 2 |  
1053           1106 2 |  
1054           1107 2 | IF .SIGNAL\_ARGS [CHFSL\_SIG\_NAME] NEQU SS\$\_UNWIND  
1055           1108 2 | THEN  
1056           1109 3 | BEGIN  
1057           1110 3 |  
1058           1111 3 | LOCAL  
1059           1112 3 |     COND\_NAME: BLOCK [4, BYTE]; ! Primary condition name  
1060           1113 3 |  
1061           1114 3 |  
1062           1115 3 |  
1063           1116 3 |  
1064           1117 3 |  
1065           1118 3 |  
1066           1119 3 |  
1067           1120 3 |  
1068           1121 3 |  
1069           1122 3 |  
1070           1123 3 |  
1071           1124 3 | IF .COND\_NAME [STSSV\_FAC\_NO] NEQU PASSFacility  
1072           1125 3 | THEN  
1073           1126 3 |     RETURN SS\$\_RESIGNAL;  
1074           1127 3 |  
1075           1128 3 |  
1076           1129 3 |  
1077           1130 3 |  
1078           1131 3 |  
1079           1132 3 |  
1080           1133 3 |  
1081           1134 3 |  
1082           1135 3 |  
1083           1136 3 |  
1084           1137 4 |  
1085           1138 4 |  
1086           1139 4 |  
              1 |  
              1 |     See if the error message is one which is "trapped"  
              1 |     by ERROR:=CONTINUE. This is done by comparing the  
              1 |     message number against a select range.  
              1 |  
              1 | IF .COND\_NAME [STSSV\_CODE] GEQU PASS\$K\_MSGCONTLO AND ! Lowest number  
              1 |     .COND\_NAME [STSSV\_CODE] LEQU PASS\$K\_MSGCONTHI  
              1 | THEN  
              1 | BEGIN  
              1 |  
              1 |  
              1 |

```

: 1087      1140 4           ! See if the PFVs match. The signaller's PFV is the
: 1088      1141 4           first FAO parameter in the primary message.
: 1089      1142 4
: 1090      1143 4
: 1091      1144 4           IF .SIGNAL_ARGS [12,0,32,0] EQLA ..ENABLE_ARGS [ENB_PFV_ADDR]
: 1092      1145 4           THEN
: 1093      1146 5           BEGIN
: 1094      1147 5
: 1095      1148 5
: 1096      1149 5           !+
: 1097      1150 5           We want to use SPUTMSG to display the message, and then
: 1098      1151 5           unwind to our establisher's caller. First, subtract two
: 1099      1152 5           from the signal argument count so that SPUTMSG doesn't see
: 1100      1153 5           the PC and PSL.
: 1101      1154 5
: 1102      1155 5           SIGNAL_ARGS [CHF$L SIG_ARGS] = .SIGNAL_ARGS [CHF$L SIG_ARGS] - 2;
: 1103      1156 5           COND_NAME [STSSV SEVERITY] = STSSK ERROR;           ! Make E severity
: 1104      1157 5           SIGNAL_ARGS [CHF$L SIG_NAME] = COND_NAME;
: 1105      1158 5           $PUTMSG (MSGVEC = SIGNAL_ARGS [CHF$L SIG_ARGS]);
: 1106      1159 5           SIGNAL_ARGS [CHF$L SIG_ARGS] = .SIGNAL_ARGS [CHF$L SIG_ARGS] + 2;
: 1107      1160 5
: 1108      1161 6           IF NOT SUNWIND ()
: 1109      1162 5           THEN
: 1110      1163 5           SPASSBUGCHECK (BUG_UNWINDFAIL);
: 1111      1164 4           END;
: 1112      1165 3           END;
: 1113      1166 2
: 1114      1167 2
: 1115      1168 2           RETURN SSS_RESIGNAL;           ! Resignal error
: 1116      1169 2
: 1117      1170 1           END;           ! End of routine DO_CLOSE_HANDLER

```

```

.EXTRN PASS FACILITY, PASS$K_MSGCONTLO
.EXTRN PASS$K_MSGCONTHI
.EXTRN SYSPUTMSG, SY$UNWIND

```

		0004 00000 DO_CLOSE_HANDLER:								
		00000920	52	04	AC	D0	00002	.WORD	Save R2	1027
			8F	04	A2	D1	00006	MOVL	SIGNAL_ARGS, R2	1107
				5F	13	0000E	CMPBL	4(R2), #2336		
					04	A2	00010	BEQL	1\$	
00G	51		51	0C	10	ED	00014	MOVL	4(R2), COND_NAME	1118
00000000G	8F		51	0C	54	12	00019	CMPZV	#16, #12, COND_NAME, SPASS_FACILITY	1124
00000000G	8F		51	0C	49	1F	00024	BNEQ	1\$	1134
				04	50	0C	03	CMPZV	#3, #12, COND_NAME, #PASS\$K_MSGCONTLO	
				80	0C	ED	00026	BLSSU	1\$	
					33	1A	0002F	CMPZV	#3, #12, COND_NAME, #PASS\$K_MSGCONTHI	1135
					04	AC	00031	BGTRU	1\$	
					80	D1	00035	MOVL	ENABLE_ARGS, R0	1144
						33	12	CMPBL	12(R2), 24(R0)	
						02	0003A	BNEQ	1\$	
						02	C2	SUBL2	#2, (R2)	1155
						00	F0	INSV	#2, #0, #3, COND_NAME	1156
51	03		04	A2	51	D0	00044	MOVL	COND_NAME, 4(R2)	1157
					7E	7C	00048	CLRR	-(SPT)	1158

		7E D4 0004A	CLRL -(SP)	
		52 DD 0004C	PUSHL R2	
0000000G	00	04 FB 0004E	CALLS #4, SYSSPUTMSG	1159
	62	02 C0 00055	ADDL2 #2, (R2)	
0000000G	00	7E 7C 00058	CLRL -(SP)	1161
	0B	02 FB 0005A	CALLS #2, SYSSUNWIND	
0000000G	00	50 E8 00061	BLBS R0, 1\$	1163
	03	03 DD 00064	PUSHL #3	
0000000G	00	01 FB 00066	CALLS #1, PASS\$BUGCHECK	
	06	06 11 0006D	BRB 2\$	
50	0918	8F 3C 0006F	1\$: MOVZWL #2328, R0	1168
		04 00074	RET	
		50 D4 00075	2\$: CLRL R0	1170
		04 00077	RET	

: Routine Size: 120 bytes, Routine Base: \_PASS\$CODE + 0280

: 1118 1171 1  
: 1119 1172 1 !<BLF/PAGE>

PASSFILE\_UTIL File manipulation utility procedures  
1-005 INITIALIZE\_QUEUE - Initialize FILE\_QUEUE

G 9  
16-Sep-1984 01:33:01  
14-Sep-1984 12:51:29

VAX-11 Bliss-32 V4.0-742  
[PASRTL.SRC]PASFILEUT.B32;1

Page 33  
(12)

```
: 1121    1173 1 ISBTTL 'INITIALIZE_QUEUE - Initialize FILE_QUEUE'  
. 1122    1174 1 ROUTINE INITIALIZE_QUEUE  
. 1123    1175 1 : NOVALUE =  
. 1124    1176 1 ++  
. 1125    1177 1 FUNCTIONAL DESCRIPTION:  
. 1126    1178 1 Initializes FILE_QUEUE to be an empty queue.  
. 1127    1179 1 CALLING SEQUENCE:  
. 1128    1180 1 INITIALIZE_QUEUE ()  
. 1129    1181 1 FORMAL PARAMETERS:  
. 1130    1182 1 NONE  
. 1131    1183 1 IMPLICIT INPUTS:  
. 1132    1184 1 FILE_QUEUE  
. 1133    1185 1 QUEUE_INITIALIZED  
. 1134    1186 1 IMPLICIT OUTPUTS:  
. 1135    1187 1 FILE_QUEUE  
. 1136    1188 1 QUEUE_INITIALIZED  
. 1137    1189 1 COMPLETION STATUS:  
. 1138    1190 1 NONE  
. 1139    1191 1 SIDE EFFECTS:  
. 1140    1192 1 Makes FILE_QUEUE an empty queue.  
. 1141    1193 1 SIGNALLED ERRORS:  
. 1142    1194 1 NONE  
. 1143    1195 1 --  
. 1144    1196 1 BEGIN  
. 1145    1197 1 LOCAL  
. 1146    1198 1 AST_STATUS; ! Previous AST enable status  
. 1147    1199 1 BUILTIN  
. 1148    1200 1 TESTBITS;  
. 1149    1201 1  
. 1150    1202 1  
. 1151    1203 1  
. 1152    1204 1  
. 1153    1205 1  
. 1154    1206 1  
. 1155    1207 1  
. 1156    1208 1  
. 1157    1209 1  
. 1158    1210 1  
. 1159    1211 1  
. 1160    1212 1  
. 1161    1213 2  
. 1162    1214 2  
. 1163    1215 2  
. 1164    1216 2  
. 1165    1217 2  
. 1166    1218 2  
. 1167    1219 2  
. 1168    1220 2  
. 1169    1221 2  
. 1170    1222 2  
. 1171    1223 2  
. 1172    1224 2  
. 1173    1225 2  
. 1174    1226 2  
. 1175    1227 2  
. 1176    1228 2  
. 1177    1229 2  
    |+  
    | Disable ASTs.  
    |-  
    AST_STATUS = $SETAST (ENBFLG = 0);  
    |+  
    | If QUEUE_INITIALIZED is still clear, initialize FILE_QUEUE to  
    | be an empty queue. Set QUEUE_INITIALIZED.
```

```

: 1178    1230 2      !-
: 1179    1231 2
: 1180    1232 2      IF TESTBITS (QUEUE_INITIALIZED)
: 1181    1233 2      THEN
: 1182    1234 3      BEGIN
: 1183    1235 3      FILE_QUEUE [0] = FILE_QUEUE;
: 1184    1236 3      FILE_QUEUE [1] = .FILE_QUEUE [0];      ! Set forward link
: 1185    1237 2      END;                                ! Set backward link
: 1186    1238 2
: 1187    1239 2
: 1188    1240 2      !+ Reenable ASTs if previously enabled.
: 1189    1241 2      !-
: 1190    1242 2
: 1191    1243 2      IF .AST_STATUS EQ SSS_WASSET
: 1192    1244 2      THEN
: 1193    1245 2      SSETAST (ENBFLG = 1);
: 1194    1246 2
: 1195    1247 2
: 1196    1248 2
: 1197    1249 1      RETURN;                            ! End of routine INITIALIZE_QUEUE

```

000C 00000 INITIALIZE\_QUEUE:

		53 0000000G	00 9E 00002	.WORD Save R2,R3	1174
		52 00000000	EF 9E 00009	MOVAB SYSSSETAST, R3	
	07	OC 63	7E D4 00010	MOVAB FILE_QUEUE, R2	
		A2	01 FB 00012	CLRL -(SPT)	1225
	04	62	00 E2 00015	CALLS #1, SYSSSETAST	
		A2	62 9E 0001A	BBSS #0, QUEUE_INITIALIZED, 1\$	1232
		09	62 D0 0001D	MOVAB FILE_QUEUE, FILE_QUEUE	1235
		.	50 D1 00021 1\$:	MOVL FILE_QUEUE, FILE_QUEUE+4	1236
			05 12 00024	CMPL AST_STATUS, #9	1243
			01 DD 00026	BNEQ 2\$	
		63	01 FB 00028	PUSHL #1	1245
			04 0002B 2\$:	CALLS #1, SYSSSETAST	
				RET	1249

: Routine Size: 44 bytes, Routine Base: \_PASSCODE + 0328

: 1198 1250 1
: 1199 1251 1 !<BLF/PAGE>

```

1201 1252 1 %SBTTL 'SERVICE_REQUEST - Service remove request'
1202 1253 1 ROUTINE SERVICE_REQUEST
1203 1254 1 : NOVALUE =
1204 1255 1
1205 1256 1 ++
1206 1257 1 FUNCTIONAL DESCRIPTION:
1207 1258 1
1208 1259 1 Removes all FCBs from FILE_QUEUE that have DEALLOC set.
1209 1260 1
1210 1261 1 CALLING SEQUENCE:
1211 1262 1
1212 1263 1 SERVICE_REQUEST ()
1213 1264 1
1214 1265 1 FORMAL PARAMETERS:
1215 1266 1
1216 1267 1 NONE
1217 1268 1
1218 1269 1 IMPLICIT INPUTS:
1219 1270 1
1220 1271 1 FILE_QUEUE
1221 1272 1 REQUEST_LEVEL
1222 1273 1 REMOVE_REQUESTED
1223 1274 1
1224 1275 1 IMPLICIT OUTPUTS:
1225 1276 1
1226 1277 1 FILE_QUEUE
1227 1278 1 REQUEST_LEVEL
1228 1279 1 REMOVE_REQUESTED
1229 1280 1
1230 1281 1 COMPLETION STATUS:
1231 1282 1
1232 1283 1 NONE
1233 1284 1
1234 1285 1 SIDE EFFECTS:
1235 1286 1
1236 1287 1 Removes FCBs from queue.
1237 1288 1
1238 1289 1 SIGNALLED ERRORS:
1239 1290 1
1240 1291 1 NONE
1241 1292 1 !--
1242 1293 1
1243 1294 2 BEGIN
1244 1295 2
1245 1296 2 LOCAL
1246 1297 2 FREE_LIST: REF VECTOR [, LONG]; ! List of FCBs we deallocated
1247 1298 2
1248 1299 2 BUILTIN
1249 1300 2 REMQUE;
1250 1301 2
1251 1302 2
1252 1303 2
1253 1304 2
1254 1305 2
1255 1306 2
1256 1307 2
1257 1308 2

```

```
: 1258      1309  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
: 1259      1310  2    ! scan the queue and do REMQUES.
: 1260      1311  2
: 1261      1312  2
: 1262      1313  2
: 1263      1314  2
: 1264      1315  2
: 1265      1316  2
: 1266      1317  2
: 1267      1318  2
: 1268      1319  2
: 1269      1320  2
: 1270      1321  2
: 1271      1322  2
: 1272      1323  2
: 1273      1324  2
: 1274      1325  2
: 1275      1326  2
: 1276      1327  2
: 1277      1328  2
: 1278      1329  2
: 1279      1330  2
: 1280      1331  2
: 1281      1332  2
: 1282      1333  2
: 1283      1334  2
: 1284      1335  2
: 1285      1336  2
: 1286      1337  2
: 1287      1338  2
: 1288      1339  2
: 1289      1340  2
: 1290      1341  2
: 1291      1342  2
: 1292      1343  2
: 1293      1344  2
: 1294      1345  2
: 1295      1346  2
: 1296      1347  4
: 1297      1348  4
: 1298      1349  4
: 1299      1350  4
: 1300      1351  4
: 1301      1352  4
: 1302      1353  4
: 1303      1354  4
: 1304      1355  4
: 1305      1356  5
: 1306      1357  5
: 1307      1358  5
: 1308      1359  5
: 1309      1360  5
: 1310      1361  5
: 1311      1362  4
: 1312      1363  4
: 1313      1364  4
: 1314      1365  4

      1310  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
      1311  2    ! scan the queue and do REMQUES.

      1313  2
      1314  2
      1315  2
      1316  2
      1317  2
      1318  2
      1319  2
      1320  2
      1321  2
      1322  2
      1323  2
      1324  2
      1325  2
      1326  2
      1327  2
      1328  2
      1329  2
      1330  2
      1331  2
      1332  2
      1333  2
      1334  2
      1335  2
      1336  2
      1337  2
      1338  2
      1339  2
      1340  2
      1341  2
      1342  2
      1343  2
      1344  2
      1345  2
      1346  2
      1347  4
      1348  4
      1349  4
      1350  4
      1351  4
      1352  4
      1353  4
      1354  4
      1355  4
      1356  5
      1357  5
      1358  5
      1359  5
      1360  5
      1361  5
      1362  4
      1363  4
      1364  4
      1365  4

      1310  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
      1311  2    ! scan the queue and do REMQUES.

      1313  2
      1314  2
      1315  2
      1316  2
      1317  2
      1318  2
      1319  2
      1320  2
      1321  2
      1322  2
      1323  2
      1324  2
      1325  2
      1326  2
      1327  2
      1328  2
      1329  2
      1330  2
      1331  2
      1332  2
      1333  2
      1334  2
      1335  2
      1336  2
      1337  2
      1338  2
      1339  2
      1340  2
      1341  2
      1342  2
      1343  2
      1344  2
      1345  2
      1346  2
      1347  4
      1348  4
      1349  4
      1350  4
      1351  4
      1352  4
      1353  4
      1354  4
      1355  4
      1356  5
      1357  5
      1358  5
      1359  5
      1360  5
      1361  5
      1362  4
      1363  4
      1364  4
      1365  4

      1310  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
      1311  2    ! scan the queue and do REMQUES.

      1313  2
      1314  2
      1315  2
      1316  2
      1317  2
      1318  2
      1319  2
      1320  2
      1321  2
      1322  2
      1323  2
      1324  2
      1325  2
      1326  2
      1327  2
      1328  2
      1329  2
      1330  2
      1331  2
      1332  2
      1333  2
      1334  2
      1335  2
      1336  2
      1337  2
      1338  2
      1339  2
      1340  2
      1341  2
      1342  2
      1343  2
      1344  2
      1345  2
      1346  2
      1347  4
      1348  4
      1349  4
      1350  4
      1351  4
      1352  4
      1353  4
      1354  4
      1355  4
      1356  5
      1357  5
      1358  5
      1359  5
      1360  5
      1361  5
      1362  4
      1363  4
      1364  4
      1365  4

      1310  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
      1311  2    ! scan the queue and do REMQUES.

      1313  2
      1314  2
      1315  2
      1316  2
      1317  2
      1318  2
      1319  2
      1320  2
      1321  2
      1322  2
      1323  2
      1324  2
      1325  2
      1326  2
      1327  2
      1328  2
      1329  2
      1330  2
      1331  2
      1332  2
      1333  2
      1334  2
      1335  2
      1336  2
      1337  2
      1338  2
      1339  2
      1340  2
      1341  2
      1342  2
      1343  2
      1344  2
      1345  2
      1346  2
      1347  4
      1348  4
      1349  4
      1350  4
      1351  4
      1352  4
      1353  4
      1354  4
      1355  4
      1356  5
      1357  5
      1358  5
      1359  5
      1360  5
      1361  5
      1362  4
      1363  4
      1364  4
      1365  4

      1310  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
      1311  2    ! scan the queue and do REMQUES.

      1313  2
      1314  2
      1315  2
      1316  2
      1317  2
      1318  2
      1319  2
      1320  2
      1321  2
      1322  2
      1323  2
      1324  2
      1325  2
      1326  2
      1327  2
      1328  2
      1329  2
      1330  2
      1331  2
      1332  2
      1333  2
      1334  2
      1335  2
      1336  2
      1337  2
      1338  2
      1339  2
      1340  2
      1341  2
      1342  2
      1343  2
      1344  2
      1345  2
      1346  2
      1347  4
      1348  4
      1349  4
      1350  4
      1351  4
      1352  4
      1353  4
      1354  4
      1355  4
      1356  5
      1357  5
      1358  5
      1359  5
      1360  5
      1361  5
      1362  4
      1363  4
      1364  4
      1365  4

      1310  2    ! Increment REQUEST_LEVEL. If we are at level zero, then we can
      1311  2    ! scan the queue and do REMQUES.

      1313  2
      1314  2
      1315  2
      1316  2
      1317  2
      1318  2
      1319  2
      1320  2
      1321  2
      1322  2
      1323  2
      1324  2
      1325  2
      1326  2
      1327  2
      1328  2
      1329  2
      1330  2
      1331  2
      1332  2
      1333  2
      1334  2
      1335  2
      1336  2
      1337  2
      1338  2
      1339  2
      1340  2
      1341  2
      1342  2
      1343  2
      1344  2
      1345  2
      1346  2
      1347  4
      1348  4
      1349  4
      1350  4
      1351  4
      1352  4
      1353  4
      1354  4
      1355  4
      1356  5
      1357  5
      1358  5
      1359  5
      1360  5
      1361  5
      1362  4
      1363  4
      1364  4
      1365  4
```

```

: 1315      1366 4      !-
: 1316      1367 4
: 1317      1368 4      CURRENT_FCB = .CURRENT_FCB [0];    ! Forward link
: 1318      1369 3      END;
: 1319      1370 3
: 1320      1371 3
: 1321      1372 3
: 1322      1373 3      !+ Reenable ASTs if they were previously enabled.
: 1323      1374 3      !-
: 1324      1375 3
: 1325      1376 3      IF .AST_STATUS EQL SSS_WASSET
: 1326      1377 3      THEN
: 1327      1378 3          $S$SETAST (ENBFLG = 1);
: 1328      1379 2      END;
: 1329      1380 2
: 1330      1381 2
: 1331      1382 2      !+ Decrement REQUEST_LEVEL.
: 1332      1383 2      !-
: 1333      1384 2
: 1334      1385 2      REQUEST_LEVEL = .REQUEST_LEVEL - 1;
: 1335      1386 2
: 1336      1387 2
: 1337      1388 2      !+ Free all blocks on FREE_LIST.
: 1338      1389 2      !-
: 1339      1390 2
: 1340      1391 2      WHILE (.FREE_LIST NEQA 0) DO
: 1341      1392 3          BEGIN
: 1342      1393 3          LOCAL
: 1343      1394 3              BLOCK_ADDR;
: 1344      1395 3              BLOCK_ADDR = .FREE_LIST;
: 1345      1396 3              FREE [IST = .FREE [IST [0];
: 1346      1397 3              PASS$FREE_VM (PASSK_FILE_DYN_BLN, BLOCK_ADDR);
: 1347      1398 2          END;
: 1348      1399 2
: 1349      1400 2      RETURN;
: 1350      1401 2
: 1351      1402 1      END;                                ! End of routine SERVICE_REQUEST

```

003C 00000 SERVICE\_REQUEST:

55	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5	1253
54	00000000	EF	9E	00009	MOVAB	SYSS\$SETAST, R5	
5E		04	C2	00010	MOVAB	REQUEST_LEVEL, R4	
		53	D4	00013	SUBL2	#4, SP	1306
		64	D6	00015	CLRL	FREE LIST	1313
		36	12	00017	INCL	REQUEST_LEVEL	
		7E	D4	00019	BNEQ	4\$	
65		01	FB	0001B	CLRL	-(SP)	1326
51	F8	A4	D0	0001E	CALLS	#1, SYSS\$SETAST	
52	08	A4	D4	00022	MOVL	FILE QUEUE, CURRENT_FCB	1332
52	F8	A4	9E	00025	CLRL	REMOVE REQUESTED	1338
		51	D1	00029	MOVAB	FILE QUEUE, R2	1346
		17	13	0002C	CMPL	CURRENT_FCB, R2	
					BEQL	3\$	

PASSFILE\_UTIL File manipulation utility procedures  
1-005 SERVICE\_REQUEST - Service remove request

L 9  
16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:51:29 [PASRTL.SRC]PASFILEUT.B32;1

Page 38  
(13)

09	FE	52	44	A1	9E	0002E	MOVAB	68(R1), FCB ORIGIN	: 1353
		A2		01	E1	00032	BBC	#1, -2(FCB ORIGIN), 2\$	: 1354
		52		61	0F	00037	REMQUE	(CURRENT_FCB), TEMP	: 1359
		61		53	D0	0003A	MOVL	FREE_LIST, (CURRENT_FCB)	: 1360
		53		51	D0	0003U	MOVL	CURRENT_FCB, FREE_LIST	: 1361
		51		61	D0	00040	2\$: MOVL	((CURRENT_FCB), CURRENT_FCB)	: 1368
		09		E0	11	00043	BRB	1\$	: 1346
				50	D1	00045	3\$: CMPL	AST_STATUS, #9	: 1375
				05	12	00048	BNEQ	4\$	
				01	DD	0004A	PUSHL	#1	: 1377
		65		01	FB	0004C	CALLS	#1, SYSSSETAST	
				64	D7	0004F	4\$: DECL	REQUEST_LEVEL	: 1385
				53	D5	00051	5\$: TSTL	FREE_LIST	: 1391
				16	13	00053	BEQL	6\$	
		6E		53	D0	00055	MOVL	FREE_LIST, BLOCK_ADDR	: 1395
		53		63	D0	00058	MOVL	(FREE_LIST), FREE_LIST	: 1396
				5E	DD	0005B	PUSHL	SP	: 1397
		00000000G	00	0138	8F	3C	0005D	MOVZWL	#312, -(SP)
					02	FB	00062	CALLS	#2, PASSFREE_VM
					E6	11	00069	BRB	5\$
					04	0006B	6\$: RET		: 1391
									: 1402

; Routine Size: 108 bytes, Routine Base: \_PASSCODE + 0354

: 1352 1403 1  
: 1353 1404 1 !<BLF/PAGE>

PASS\$FILE\_UTIL File manipulation utility procedures  
1-005 SERVICE\_REQUEST - Service remove request  
: 1355 1405 1 END  
: 1356 1406 1  
: 1357 1407 0 ELUDOM

M 9  
16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:51:29 [PASRTL.SRC]PASFILEUT.B32;1

Page 39  
(14)

: ! End of module PASS\$FILE\_UTIL

#### PSECT SUMMARY

Name	Bytes	Attributes
PASS\$DATA	20	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON, PIC,ALIGN(2)
PASS\$CODE	960	NOVEC,NOWRT, RD : EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### Library Statistics

File	----- Symbols -----	Pages Mapped	Processing Time
	Total      Loaded      Percent		
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776      19      0	581	00:00.9
\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427      105      24	33	00:00.4

#### COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:PASFILEUT/OBJ=OBJ\$:PASFILEUT MSRC\$:PASFILEUT/UPDATE=(ENH\$:PASFILEUT  
)

: Size: 960 code + 20 data bytes  
: Run Time: 00:21.6  
: Elapsed Time: 01:09.6  
: Lines/CPU Min: 3915  
: Lexemes/CPU-Min: 16758  
: Memory Used: 102 pages  
: Compilation Complete

0294 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

